

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Ascendum Machinery Machine Id VOLVO L90H 623682 Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

### WEAR

All component wear rates are normal.

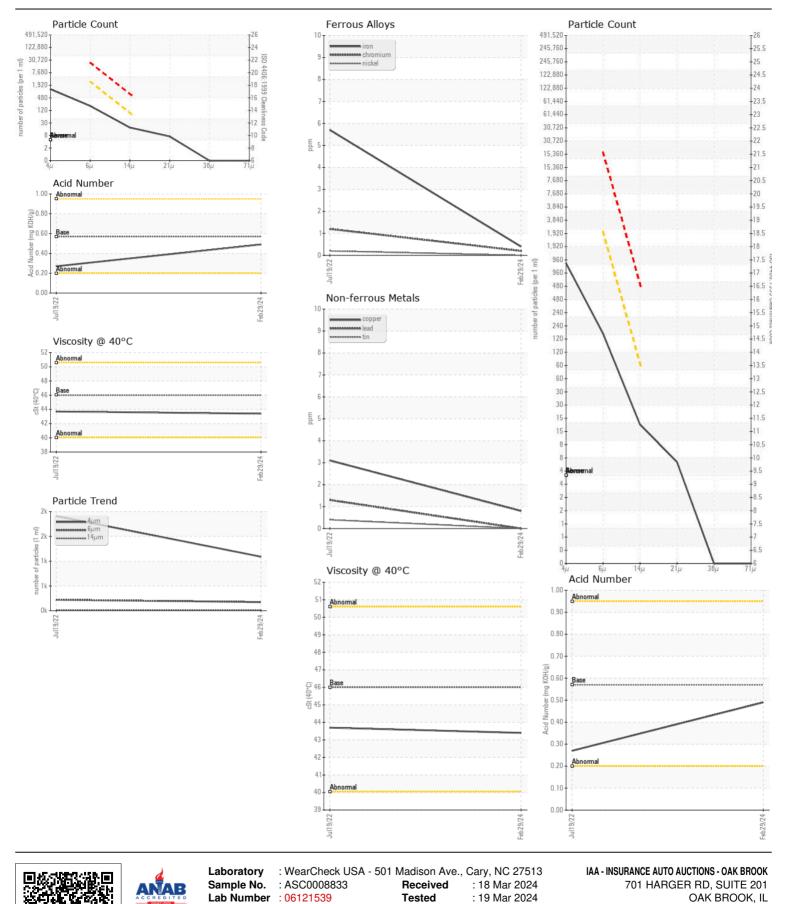
## CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test     ODM     Method     Limitable     Current     History1     History1     History1       Sample Number     Client Info     ASCOUSSIN     VCP378720        Machine Age     hrs     Client Info     12971     10199        Oil Age     hrs     Client Info     12971     0        Oil Changed     Client Info     Not Changed     Not Changed     Not Changed        Filter Age     hrs     Client Info     Not Changed     Changed        Sample Status     Visual     Not Changed     Not Changed         Chromium     ppm     ASTM D5185m     >50     <-1     6        Nickel     ppm     ASTM D5185m     >20     <-1     1        Aluminum     ppm     ASTM D5185m     >20     <-1     3        Aluminum     ppm     ASTM D5185m     >20     <-1     3        Vanaduim     ppm     ASTM D5185m     >20 <th>т</th> <th></th> <th>NA - thel</th> <th>L</th> <th></th> <th>L Bakawai</th> <th>L Bata a O</th>	т		NA - thel	L		L Bakawai	L Bata a O
Sample Date     Client Info     19 Jul 2022        Machine Age     hrs     Client Info     12971     10199        Oil Age     hrs     Client Info     0        Oil Changed     Client Info     0     0        Oil Changed     Client Info     Not Changd      Not Changed        Sample Status     Volt Changed     Client Info     Not Changed         Iron     ppm     ASTM 55185m     >50     <1     6        Nickel     ppm     ASTM 55185m     >20     <1     1        Nickel     ppm     ASTM 55185m     >20     <1     1        Aluminum     ppm     ASTM 55185m     >20     <1     1        Lead     ppm     ASTM 55185m     >20     0     <1        Vanadium     ppm     ASTM 55185m     >20     0     <1        Vanadium     ppm	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age     hrs     Client Info     12971     10 199        Filter Age     hrs     Client Info     0        GOI Changed     Client Info     Not Changd     Not Changd        Filter Changed     Client Info     Not Changd      Changed        Sample Status     Not Changd     Not Changd      Changed        Iron     ppm     ASTM D5185m     >50     <1     6        Nickel     ppm     ASTM D5185m     >20     <1     1        Silver     ppm     ASTM D5185m     20     <1     1        Copper     ppm     ASTM D5185m     >20     0     1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Valead     scalar     Yusual     NONE     NONE     NONE        Valeadium     ppm     ASTM D5185m     >20     1     4							
Oil Age     hrs     Client Info     12971     0        Filter Age     hrs     Client Info     Not Changd     Not Changd        Oil Changed     Client Info     Not Changd     Not Changd        Sample Status     Client Info     Not Changd     Nor MAL        Iron     ppm     ASTM D5185m     >50     <1     6        Chromium     ppm     ASTM D5185m     >10     0     <1        Nickel     ppm     ASTM D5185m     >10     0     <1        Aluminum     ppm     ASTM D5185m     >20     <1     1        Aluminum     ppm     ASTM D5185m     >20     0     <1        Aluminum     ppm     ASTM D5185m     >20     0     <1        Vanadum     ppm     ASTM D5185m     >20     0     <1        Vanadum     ppm     ASTM D5185m     >20     1     4  <		la una					
Filter Age     hrs     Client Info     O     O        Oil Changed     Client Info     Not Changed     Not Changed        Filter Changed     Client Info     Not Changed      Changed        Sample Status     NORMAL     NORMAL     NORMAL        Iron     ppm     ASTM D5185m     >20     <1     1        Chromium     ppm     ASTM D5185m     >20     <1     1        Nickel     ppm     ASTM D5185m     >20     0     <1        Aluminum     ppm     ASTM D5185m     >20     0     1        Copper     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     1     4        Valeadum     ppm     ASTM D5185m     >20     1     0	J	-					
Oil Changed     Client Info     Not Changd     Not Changd        Filter Changed     Client Info     Not Changd     Changed        Sample Status     NORMAL     NORMAL     NORMAL        Iron     ppm     ASTM D5185m     >20     <1     6        Nickel     ppm     ASTM D5185m     >20     <1     1        Nickel     ppm     ASTM D5185m     >20     <1     1        Silver     ppm     ASTM D5185m     >20     <1     1        Aluminum     ppm     ASTM D5185m     >20     <1     1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     1     4        Vanadium     ppm     ASTM D5185m     >20     1     4	0				-	-	
Filter Changed Sample Status     Client Info     Not Changed NORMAL        Iron     ppm     ASTM D5185m     >50     <1     6        Iron     ppm     ASTM D5185m     >20     <1     1        Nickel     ppm     ASTM D5185m     >20     <1     1        Nickel     ppm     ASTM D5185m     0     0         Aluminum     ppm     ASTM D5185m     >20     0     1        Aluminum     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     1     4        Vanadium     ppm     ASTM D5185m     >20     1     4        Vanadium     ppm     ASTM D5185m     >20     1	Ũ	nrs			-	•	
Sample Status     NORMAL     NORMAL     NORMAL        Iron     ppm     ASTM D5185m     >50     <1     6        Chromium     ppm     ASTM D5185m     >10     0     <1     1        Nickel     ppm     ASTM D5185m     >10     0     <1     1        Silver     ppm     ASTM D5185m     >20     0     1        Lead     ppm     ASTM D5185m     >20     0     1        Qopper     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     <1        Vanadium     ppm     ASTM D5185m     >20     0     0        Vanadium     ppm     ASTM D5185m     >20     1     4        Vellow Metal     scalar     *Visual     NONE     NONE     NONE        Silicon     ppm     ASTM D7647     >20 <th></th> <th></th> <th></th> <th></th> <th>v</th> <th>0</th> <th></th>					v	0	
Iron     ppm     ASTM D5185m     >50     <1	J		Client Info		-	0	
Chromium     ppm     ASTM D5185m     >20     <1	Sample Status					NORIVIAL	
Chromium     ppm     ASTM D5185m     >20     <1	Iron	maa	ASTM D5185m	>50	<1	6	
Nickel     ppm     ASTM D5185m     >10     0     <1	-						
Titanium     ppm     ASTM D5185m     0     0				>10		<1	
Silver     ppm     ASTM D5185m     0     0	Titanium				0	0	
Aluminum     ppm     ASTM D5185m     >20     <1	Silver		ASTM D5185m		0	0	
Lead     ppm     ASTM D5185m     >20     0     1        Copper     ppm     ASTM D5185m     >150     <1	Aluminum		ASTM D5185m	>20	<1	1	
Copper     ppm     ASTM D5185m     >150     <1	Lead		ASTM D5185m	>20		1	
Tin     ppm     ASTM D5185m     >20     0     <1	Copper		ASTM D5185m	>150	<1	3	
Vanadium     ppm     ASTM D5185m     0     0			ASTM D5185m	>20	0	<1	
Yellow Metal     scalar     *Visual     NONE     NONE     NONE        Silicon     ppm     ASTM D5185m     >20     <1     0        Potassium     ppm     ASTM D5185m     >20     <1     0        Water     WC Method     >0.1     NEG     NEG        Particles >4µm     ASTM D7647     2500     173     220        Particles >6µm     ASTM D7647     >20     6     5        Particles >14µm     ASTM D7647     >20     6     5        Particles >38µm     ASTM D7647     >20     6     5        Particles >38µm     ASTM D7647     >20     6     5        Particles >71µm     ASTM D7647     3     0     0        Solit     scalar     *Visual     NONE     NONE        Debris     scalar     *Visual     NONE     NORML     NORML        Appearance	Vanadium	ppm	ASTM D5185m		0		
Silicon     ppm     ASTM D5185m     >20     1     4        Potassium     ppm     ASTM D5185m     >20     <1     0        Water     WC Method     >0.1     NEG     NEG        Particles >4µm     ASTM D7647     2500     173     220        Particles >6µm     ASTM D7647     >20     6     5        Particles >6µm     ASTM D7647     >20     6     5        Particles >14µm     ASTM D7647     >20     6     5        Particles >38µm     ASTM D7647     >4     0     0        Particles >38µm     ASTM D7647     >4     0     0        Particles >71µm     ASTM D7647     >3     0     0        Solit     scalar     *Visual     NONE     NONE        Debris     scalar     *Visual     NONE     NORML     NORML        Appearance     scalar	White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium     ppm     ASTM D5185m     >20     <1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium     ppm     ASTM D5185m     >20     <1							
Water     WC Method     >0.1     NEG        Particles >4µm     ASTM D7647     1089     1909        Particles >6µm     ASTM D7647     >2500     173     220        Particles >14µm     ASTM D7647     >20     6     5        Particles >21µm     ASTM D7647     >4     0     0        Particles >38µm     ASTM D7647     >4     0     0        Particles >71µm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NORL     NORML     NORML        Appearance     scalar     *Visual     NORM     NORML     NORML        Sodium     ppm     ASTM D5185m     5     0     3        Boron     ppm					-		
Particles >4μm     ASTM D7647     1089     1909        Particles >6μm     ASTM D7647     >2500     173     220        Particles >14μm     ASTM D7647     >80     16     16        Particles >21μm     ASTM D7647     >20     6     5        Particles >38μm     ASTM D7647     >4     0     0        Particles >71μm     ASTM D7647     >3     0     0        Particles >71μm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NORML     NORML     NORML        Appearance     scalar     *Visual     NORML     NORML     NORML        Odor     scalar     *Visual     NORM     NORML     NORML		ppm				-	
Particles >6μm     ASTM D7647     >2500     173     220        Particles >14μm     ASTM D7647     >80     16     16        Particles >21μm     ASTM D7647     >20     6     5        Particles >38μm     ASTM D7647     >4     0     0        Particles >71μm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Appearance     scalar     *Visual     NORM     NORML     NORML        Odor     scalar     *Visual     NORM     NORML     NORML        Goron     scalar     *Visual     NORML     NORML     NORML        Boron     ppm     ASTM D5185m     5     0     3 </th <th></th> <th></th> <th></th> <th>&gt;0.1</th> <th></th> <th></th> <th></th>				>0.1			
Particles >14µm     ASTM D7647     >80     16     16        Particles >21µm     ASTM D7647     >20     6     5        Particles >38µm     ASTM D7647     >4     0     0        Particles >71µm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE     NONE        Appearance     scalar     *Visual     NORML     NORML     NORML        Odor     scalar     *Visual     NORML     NORML     NORML        Sodium     ppm     ASTM D5185m     5     0     3        Boron     ppm     ASTM D5185m     5     0    <							
Particles >21µm     ASTM D7647     >20     6     5        Particles >38µm     ASTM D7647     >4     0     0        Particles >71µm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE     NORML        Appearance     scalar     *Visual     NORML     NORML     NORML        Appearance     scalar     *Visual     NORML     NORML     NORML        Gdor     scalar     *Visual     NORML     NORML         Mappearance     scalar     *Visual     >0.1     NEG     NEG        Molybdenum     ppm     ASTM D5185m     5 </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Particles >38µm     ASTM D7647     >4     0     0        Particles >71µm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >-/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE     NONE        Appearance     scalar     *Visual     NORML     NORML     NORML        Odor     scalar     *Visual     NORML     NORML     NORML        Godor     scalar     *Visual     >0.1     NEG     NEG        Sodium     ppm     ASTM D5185m     5     0     3        Boron     ppm     ASTM D5185m     5     0     <-1        Malganese     ppm     ASTM D5185m     5					-		
Particles >71µm     ASTM D7647     >3     0     0        Oil Cleanliness     ISO 4406 (c)     >/18/13     17/15/11     18/15/11        Silt     scalar     *Visual     NONE     NONE     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE     NONE        Appearance     scalar     *Visual     NORML     NORML     NORML        Odor     scalar     *Visual     NORML     NORML     NORML        Godor     scalar     *Visual     NORML     NORML     NORML        Godor     scalar     *Visual     >0.1     NEG     NEG        Sodium     ppm     ASTM D5185m     5     0     3        Boron     ppm     ASTM D5185m     5     0     <-1        Malganese     ppm     ASTM D5185m					-		
Oil CleanlinessISO 4406 (c)>/18/1317/15/1118/15/11Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m503BoronppmASTM D5185m503MalganeseppmASTM D5185m50<MagnesiumppmASTM D5185m2082118PhosphorusppmASTM D5185m300399409ZincppmASTM D5185m370545462SulfurppmASTM D5185m250016192699Acid Number (AN)mg KOHgASTM D5185m25000.490.27					-	-	
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m503BoronppmASTM D5185m500BariumppmASTM D5185m50<MolybdenumppmASTM D5185m50<ManganeseppmASTM D5185m25<10MagnesiumppmASTM D5185m20082118PhosphorusppmASTM D5185m370545462SulfurppmASTM D5185m250016192699Acid Number (AN)mg KOH/gASTM D80450.570.490.27					-		
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m503BariumppmASTM D5185m50<MolybdenumppmASTM D5185m50<MagnesiemppmASTM D5185m25<10MagnesiumppmASTM D5185m20082118PhosphorusppmASTM D5185m370545462ZincppmASTM D5185m250016192699SulfurppmASTM D5185m250016192699Acid Number (AN)mg KOH/gASTM D80450.570.490.27					_		
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m503BariumppmASTM D5185m500MolybdenumppmASTM D5185m50<MagneseppmASTM D5185m50<MagnesiumppmASTM D5185m25<15CalciumppmASTM D5185m20082118PhosphorusppmASTM D5185m370545462SulfurppmASTM D5185m250016192699Acid Number (AN)mg KOH/gASTM D80450.570.490.27							
Emulsified Water     scalar     *Visual     >0.1     NEG     NEG        Sodium     ppm     ASTM D5185m     2     2        Boron     ppm     ASTM D5185m     5     0     3        Barium     ppm     ASTM D5185m     5     0     0        Molybdenum     ppm     ASTM D5185m     5     0     <1        Magnese     ppm     ASTM D5185m     5     0     <1        Magnesium     ppm     ASTM D5185m     25     <1     5        Calcium     ppm     ASTM D5185m     200     82     118        Phosphorus     ppm     ASTM D5185m     300     399     409        Zinc     ppm     ASTM D5185m     370     545     462        Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOHg     ASTM D8045     0.57 <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Sodium     ppm     ASTM D5185m     2     2        Boron     ppm     ASTM D5185m     5     0     3        Barium     ppm     ASTM D5185m     5     0     0        Barium     ppm     ASTM D5185m     5     0     0        Molybdenum     ppm     ASTM D5185m     5     0     <1        Maganese     ppm     ASTM D5185m     25     <1     0        Magnesium     ppm     ASTM D5185m     25     <1     5        Calcium     ppm     ASTM D5185m     200     82     118        Phosphorus     ppm     ASTM D5185m     300     399     409        Zinc     ppm     ASTM D5185m     370     545     462        Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOH/g     ASTM D8045     0.57 <t< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></t<>					-		
Boron     ppm     ASTM D5185m     5     0     3        Barium     ppm     ASTM D5185m     5     0     0        Molybdenum     ppm     ASTM D5185m     5     0     <1        Manganese     ppm     ASTM D5185m     25     <1     0        Magnesium     ppm     ASTM D5185m     20     <1     5        Calcium     ppm     ASTM D5185m     200     <1     5        Phosphorus     ppm     ASTM D5185m     200           Zinc     ppm     ASTM D5185m     300           Sulfur     ppm     ASTM D5185m     370            Acid Number (AN)     mg KOHg     ASTM D5185m     0.57		Jouran	violat	20.1		NEG	
Boron     ppm     ASTM D5185m     5     0     3        Barium     ppm     ASTM D5185m     5     0     0        Molybdenum     ppm     ASTM D5185m     5     0     <1        Manganese     ppm     ASTM D5185m     25     <1     0        Magnesium     ppm     ASTM D5185m     20     <1     5        Calcium     ppm     ASTM D5185m     200     <1     5        Phosphorus     ppm     ASTM D5185m     200           Zinc     ppm     ASTM D5185m     300           Sulfur     ppm     ASTM D5185m     370            Acid Number (AN)     mg KOHg     ASTM D5185m     0.57	Sodium	ppm	ASTM D5185m		2	2	
Barium     ppm     ASTM D5185m     5     0     0        Molybdenum     ppm     ASTM D5185m     5     0     <1	Boron		ASTM D5185m	5	0	3	
Maganese     ppm     ASTM D5185m     <1	Barium	ppm	ASTM D5185m	5	0	0	
Magnesium     ppm     ASTM D5185m     25     <1	Molybdenum	ppm	ASTM D5185m	5	0	<1	
Calcium     ppm     ASTM D5185m     200     82     118        Phosphorus     ppm     ASTM D5185m     300     399     409        Zinc     ppm     ASTM D5185m     370     545     462        Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOH/g     ASTM D8045     0.57     0.49     0.27	Manganese	ppm	ASTM D5185m		<1	0	
Phosphorus     ppm     ASTM D5185m     300     399     409        Zinc     ppm     ASTM D5185m     370     545     462        Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOH/g     ASTM D8045     0.57     0.49     0.27	0	ppm	ASTM D5185m	25	<1	5	
Zinc     ppm     ASTM D5185m     370     545     462        Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOH/g     ASTM D8045     0.57     0.49     0.27	Calcium	ppm	ASTM D5185m	200	82	118	
Sulfur     ppm     ASTM D5185m     2500     1619     2699        Acid Number (AN)     mg KOH/g     ASTM D8045     0.57     0.49     0.27	Phosphorus	ppm	ASTM D5185m	300	399	409	
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.49 0.27	Zinc	ppm	ASTM D5185m	370	545	462	
	Sulfur	ppm	ASTM D5185m	2500	1619	2699	
Visc @ 40°C cSt ASTM D445 46 43.4 43.7		mg KOH/g	ASTM D8045	0.57	0.49	0.27	
	Visc @ 40°C	cSt	ASTM D445	46	43.4	43.7	



: 19 Mar 2024 - Wes Davis Unique Number : 10930372 Diagnosed Test Package : CONST Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: IAAOAK [WUSCAR] 06121539 (Generated: 03/19/2024 15:41:44) Rev: 1

Submitted By: RYAN ZEBALLOS

US 60523

T:

F: