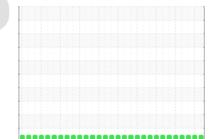


OIL ANALYSIS REPORT





Component
Diesel Engine Fluid CHEVRON 15W40 (6 GAL)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

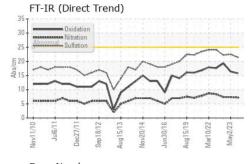
Fluid Condition

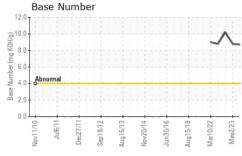
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

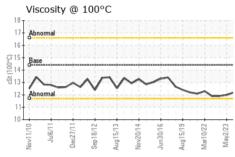
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DJJ0012339	DJJ0016935	DJJ023777
Sample Date		Client Info		11 Apr 2024	02 May 2023	10 Feb 2023
Machine Age	hrs	Client Info		17251	16887	16638
Oil Age	hrs	Client Info		500	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	10	10
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	2
Lead	ppm	ASTM D5185m	>20	<1	0	1
Copper	ppm	ASTM D5185m	>15	<1	<1	0
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		268	272	77
Barium	10 10 100	AOTAL DELOE		0	0	0
	ppm	ASTM D5185m		•	O	Ü
Molybdenum	ppm	ASTM D5185m		80	108	46
Molybdenum Manganese						
•	ppm	ASTM D5185m		80	108	46
Manganese	ppm	ASTM D5185m ASTM D5185m		80 <1	108	46
Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		80 <1 611	108 <1 576	46 1 523
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		80 <1 611 1447	108 <1 576 1465	46 1 523 1754
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		80 <1 611 1447 752	108 <1 576 1465 690	46 1 523 1754 876
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	80 <1 611 1447 752 858	108 <1 576 1465 690 845	46 1 523 1754 876 1134
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20	80 <1 611 1447 752 858 2996	108 <1 576 1465 690 845 2566	46 1 523 1754 876 1134 3144
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20	80 <1 611 1447 752 858 2996	108 <1 576 1465 690 845 2566 history1	46 1 523 1754 876 1134 3144 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20	80 <1 611 1447 752 858 2996 current	108 <1 576 1465 690 845 2566 history1	46 1 523 1754 876 1134 3144 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >50	80 <1 611 1447 752 858 2996 current 8	108 <1 576 1465 690 845 2566 history1 7	46 1 523 1754 876 1134 3144 history2 8
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >50 >20	80 <1 611 1447 752 858 2996 current 8 3	108 <1 576 1465 690 845 2566 history1 7 1 <1	46 1 523 1754 876 1134 3144 history2 8 1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >50 >20 limit/base	80 <1 611 1447 752 858 2996 current 8 3 3	108 <1 576 1465 690 845 2566 history1 7 1 <1	46 1 523 1754 876 1134 3144 history2 8 1 2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>20 >50 >20 >20 limit/base >3	80 <1 611 1447 752 858 2996 current 8 3 current 0.3	108 <1 576 1465 690 845 2566 history1 7 1 <1 history1 0.3	46 1 523 1754 876 1134 3144 history2 8 1 2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	>20 >50 >20 limit/base >3 >20	80 <1 611 1447 752 858 2996 current 8 3 3 current 0.3 7.2	108 <1 576 1465 690 845 2566 history1 7 1 <1 history1 0.3 7.4	46 1 523 1754 876 1134 3144 history2 8 1 2 history2 0.3 7.4
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >50 >20 limit/base >3 >20 >30 limit/base	80 <1 611 1447 752 858 2996 current 8 3 3 current 0.3 7.2 21.4	108 <1 576 1465 690 845 2566 history1 7 1 <1 history1 0.3 7.4 22.5	46 1 523 1754 876 1134 3144 history2 8 1 2 history2 0.3 7.4 22.2



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

I LOID I HOI LIH	ILO					
Visc @ 100°C	cSt	ASTM D445	14.4	12.2	12.0	11.9

GRAPH	S																		
Iron (pp	m)										ad (p	pm)							
Severe Abnormal									4 Ed. 2	0 - Abr	ere								
Nov11/10	3 Dec27/11	Sep18/12	Aug15/13	Nov20/14	Jun30/16	Aug15/19 -	Mar10/22	May2/23		Nov11/10	Jul6/11	Dec27/11-	Sep18/12	Aug15/13	Nov20/14	Jun30/16 -	Aug15/19	Mar10/22	May2/23
Aluminui	m (l	opm) Terr	757		7111		7777	2	5 T 7 - 5	romi	um (ppm	יי קיי	777		7757		77
Severe Severe Abnormal									Ed 1	1 1	normal								
Nov11/10 Jul6/11	Dec27/11-	Sep18/12	Aug15/13	Nov20/14	Jun30/16	Aug15/19	Mar10/22	May2/23		Nov11/10	Jul6/11-	Dec27/11.	Sep18/12	Aug15/13	Nov20/14	Jun30/16	Aug15/19	Mar10/22	May2/23
Copper ((ppn	n)				777			5	0 T 7 - 5	con	(ppn	1) 7777		3763		7177		
Abnormal									Ed 2	Ab.	normal						<u> </u>		
Nov11/10	Dec27/11	Sep18/12 -	Aug15/13	Nov20/14	Jun30/16	Aug15/19	Mar10/22	May2/23		Nov11/10	Jul6/11	Dec27/11	Sep18/12	Aug15/13	Nov20/14	Jun30/16	Aug15/19	Mar10/22	May2/23
Viscosity	@	100°	,C						12.	0	se N	umb	er						
Abnormal Base Abnormal	~	~	~	~~					Base Number (mg KOH/g)	O Abr	normal							7	^
01/11	27/11	8/12	5/13	20/14	30/16	5/19	10/22	y2/23	8 2. 0.	o L	II/9In	111/12	18/12	5/13	20/14	30/16	5/19	10/22	42/23





Report Id: ADVSED [WUSCAR] 06153689 (Generated: 04/19/2024 17:30:30) Rev: 1

Laboratory

Sample No. : DJJ0012339 Lab Number : 06153689

Unique Number : 10983767

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 18 Apr 2024 : 19 Apr 2024 Diagnosed : 19 Apr 2024 - Wes Davis

ADVANTAGE METALS RECYCLING - SEDALIA 300 N IRON AVE SEDALIA, MO

US 65301 Contact: GREGORY LAND

F: (660)827-5304

Test Package : MOBCE (Additional Tests: TBN) Certificate 12367 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.

gregory.land@advantagerecycling.com T: (660)827-1873

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: GREGORY LAND - ADVSED