

## **OIL ANALYSIS REPORT**

Sample Rating Trend



# WESTERN STAR 150-20

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (12 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

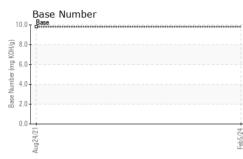
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

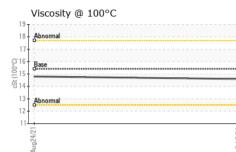
SAMPLE INFORMATION  method  limit/base  current  history1  history2    Sample Date  Client Info  05 Feb 2024  24 Aug 2021     Machine Age  mis  Client Info  35216  177569     Oil Age  mis  Client Info  35216  177569     Oil Changed  Client Info  9816  14500     Sample Status  Imit/base  current  history1  history2    Fuel  WC Method  >3.0  <1.0     Water  WC Method  >0.2  NEG  NEG     WEAR METALS  method  Imit/base  current  history1  history2    Iron  ppm  ASTM05165m  >5  2  1     WEAR METALS  method  Imit/base  current  history1  history1    Fuel  WC Method  >0   1      Machine App  MSTM05165m  >5  2				-			
Sample Date  Client Info  05 Feb 2024  24 Aug 2021     Machine Age  mis  Client Info  35216  177569     Oil Age  mis  Client Info  9816  14500     Sample Status  Imit for  Changed  Changed     Sample Status  Imit for  NORMAL  NORMAL     Valer  WC Method  >3.0  <1.0  <1.0     Water  WC Method  >0.2  NEG  NEG     WEAR METALS  method  Imit/base  current  history1  history2    Iron  ppm  ASTM 05185m  >5  20  18     Vickel  ppm  ASTM 05185m  >3  0  0     Silver  ppm  ASTM 05185m  >35  9  8     Aluminum  ppm  ASTM 05185m  >180  0      Chycer  ppm  ASTM 05185m	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age  mis  Client Info  35216  177569     Oil Age  mis  Client Info  9816  14500     Oil Changed  Client Info  9816  14500     Sample Status  NORMAL  NORMAL      CONTAMINATION  method  imit/base  current  history1     Water  WC Method  >3.0  <1.0      Water  WC Method  >0.2  NEG  NEG     Orinom  ppm  ASTM 05165  S  20  18     Chromium  ppm  ASTM 05165  >5  2  1     Nickel  ppm  ASTM 05165  >  2  1     Nickel  ppm  ASTM 05165  >  1      Autinum  ppm  ASTM 05165  >  1      Autinum  ppm  ASTM 05165  <	Sample Number		Client Info		PCA0089607	PCA0042150	
Oil Age  mis  Client Info  9816  14500     Oil Changed  Client Info  Changed  Changed     Sample Status  method  limit/base  current  history1     CONTAMINATION  method  >3.0  <1.0      Water  WC Method  >0.2  NEG  NEG     Water  WC Method  >0.2  NEG  NEG     WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM 05186  >5  20  18     Nickel  ppm  ASTM 05186  >5  21      Aluminum  ppm  ASTM 05186  >5  20  0     Aluminum  ppm  ASTM 05186  >2  0      Aluminum  ppm  ASTM 05186  0  0      Aluminum  p	Sample Date		Client Info		05 Feb 2024	24 Aug 2021	
Oil Changed  Client Info  Changed NORMAL  Changed NORMAL	Machine Age	mls	Client Info		35216	177569	
Sample Status  NORMAL  NORMAL  Instany1  Inistany1    CONTAMINATION  method  limit/base  current  histony1  histony2    Fuel  WC Method  >3.0  <1.0     Water  WC Method  >0.2  NEG     WEAR METALS  method  limit/base  current  histony1  histony2    Iron  ppm  ASTM D5185m  >5  20  18     Othormium  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  4  2     Aluminum  ppm  ASTM D5185m  >3  0  0     Aluminum  ppm  ASTM D5185m  >8  1  0     Aluminum  ppm  ASTM D5185m  >8  1  0     Antimony  ppm  ASTM D5185m  >8  1  0     Antimony  ppm	Oil Age	mls	Client Info		9816	14500	
CONTAMINATION  method  limit/base  current  history2    Fuel  WC Method  >3.0  <1.0     Water  WC Method  >0.2  NEG  NEG     Water  WC Method  >0.2  NEG  NEG     WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM D5185m  >5  20  18     Nickel  ppm  ASTM D5185m  >5  2  1     Aluminum  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >10  0  <1     Astmony  ppm  ASTM D5185m  >8  <1  0     Astmony  ppm  ASTM D5185m  >8  <1  0     Vanadium  ppm	Oil Changed		Client Info		Changed	Changed	
Fuel  WC Method  >3.0  <1.0	Sample Status				NORMAL	NORMAL	
Fuel  WC Method  >3.0  <1.0	CONTAMINAT	ION	method	limit/base	current	history1	history2
Water  WC Method  >0.2  NEG  NEG     Glycol  WC Method  NEG  NEG     WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  2  1     Silver  ppm  ASTM D5185m  >35  9  8     Lead  ppm  ASTM D5185m  >180  2  2     Antimony  ppm  ASTM D5185m  >180  2  2     Antimony  ppm  ASTM D5185m  >35   0     Qopper  ppm  ASTM D5185m  0  0  0     Cadmium  ppm  ASTM D5185m  0  <1  6     Bar	Fuel		WC Method	>3.0	<10		
Glycol  WC Method  NEG  NEG     WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM D5185m  >65  20  18     Nickel  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >35  9  8     Autiminum  ppm  ASTM D5185m  >10  0  <    Copper  ppm  ASTM D5185m  0  2     Antimony  ppm  ASTM D5185m  0  0  0     Antimony  ppm  ASTM D5185m  0  <1  6     Antimony  ppm  ASTM D5185m  0  <1  6     AstM D5185m							
WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >5  <1  2     Silver  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >5  9  8     Aluminum  ppm  ASTM D5185m  >5  9  8     Copper  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  0  0  0     Addium  ppm  ASTM D5185m  0  <11  6     Vanadium  ppm  ASTM D5185m  0  <11  6     Addium  ppm  ASTM D5185m  0  <11				20.L			
Iron  ppm  ASTM D5185m  >65  20  18     Chromium  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >3  0  0     Titanium  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >5  <1  2     Aluminum  ppm  ASTM D5185m  >35  9  8     Copper  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  >8  <1  0     Cadmium  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  0  <1  6     Cadmium  ppm  ASTM D5185m  0  <1<	,	<u>_</u>		1' 't /l	-		
Chromium  ppm  ASTM D5185m  >5  2  1     Nickel  ppm  ASTM D5185m  >3  0  0     Titanium  ppm  ASTM D5185m  >5  <1  2     Silver  ppm  ASTM D5185m  >2  0  0     Auminum  ppm  ASTM D5185m  >2  0  0     Lead  ppm  ASTM D5185m  >10  0  <1     Copper  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  0  0      Vanadium  ppm  ASTM D5185m  0  0  0     Cadmium  ppm  ASTM D5185m  0  <1  6     Boron  ppm  ASTM D5185m  0  63  56     Barium  ppm  ASTM D5185m  0  6  963 <th></th> <th>5</th> <th></th> <th></th> <th></th> <th></th> <th>history2</th>		5					history2
Nickel  ppm  ASTM D5185m  >3  0  0     Titanium  ppm  ASTM D5185m  >5  <1  2     Silver  ppm  ASTM D5185m  >2  0  0     Aluminum  ppm  ASTM D5185m  >35  9  8     Lead  ppm  ASTM D5185m  >36  2  2     Tin  ppm  ASTM D5185m  >180  2  2     Antimony  ppm  ASTM D5185m  >35   0     Cadmium  ppm  ASTM D5185m  >35   0     Cadmium  ppm  ASTM D5185m  0  0  0     Boron  ppm  ASTM D5185m  0  <1  6     Magnesium  ppm  ASTM D5185m  0  0  <11     Magnesium  ppm  ASTM D5185m  1010  94	-						
Titanium  ppm  ASTM D5185m  >5  <1					_		
Silver  ppm  ASTM D5185m  >2  0  0     Aluminum  ppm  ASTM D5185m  >355  9  8     Lead  ppm  ASTM D5185m  >10  0  <11					-		
Auminum  ppm  ASTM D5185m  >35  9  8     Lead  ppm  ASTM D5185m  >10  0  <1     Copper  ppm  ASTM D5185m  >180  2  2     Tin  ppm  ASTM D5185m  >88  <1  0     Antimony  ppm  ASTM D5185m  >35   0     Vanadium  ppm  ASTM D5185m  0  0  0     Cadmium  ppm  ASTM D5185m  0  <1  6     ADDTIVES  method  imit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1  6     Magnese  ppm  ASTM D5185m  0  0  <1     Magneseium  ppm  ASTM D5185m  1010  946  963     Sulfur  ppm  ASTM D5185m  1070							
Lead  ppm  ASTM D5185m  >10  0  <1					-		
Copper  ppm  ASTM D5185m  >180  2  2     Tin  ppm  ASTM D5185m  >8  <1  0     Antimony  ppm  ASTM D5185m  >35   0     Vanadium  ppm  ASTM D5185m  0  0   0    Cadmium  ppm  ASTM D5185m  0  0  0     ADDITIVES  method  Imit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1  6     Barium  ppm  ASTM D5185m  0  0  0     Magnanese  ppm  ASTM D5185m  00  0  <1     Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1150  1084  1114     Sulfur  ppm  ASTM D5185m  1200  3070 <th></th> <th>ppm</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		ppm			-		
Tin  ppm  ASTM D5185m  >8  <1					-		
Antimony  ppm  ASTM D5185m  >35   0     Vanadium  ppm  ASTM D5185m  0  0      Cadmium  ppm  ASTM D5185m  0  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1  6     Barium  ppm  ASTM D5185m  0  63  56     Manganese  ppm  ASTM D5185m  0  0  <1     Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1070  1084  955     Sulfur  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  216 </th <th>••</th> <th>ppm</th> <th></th> <th></th> <th></th> <th></th> <th></th>	••	ppm					
Vanadium  ppm  ASTM D5185m  0  0     Cadmium  ppm  ASTM D5185m  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1		ppm					
Cadmium  ppm  ASTM D5185m  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1		ppm		>35			
ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  0  <1  6     Barium  ppm  ASTM D5185m  0  0  0     Molybdenum  ppm  ASTM D5185m  0  0  0     Magnesium  ppm  ASTM D5185m  0  0  <1     Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base		ppm					
Boron  ppm  ASTM D5185m  0  <1	Cadmium	ppm	ASTM D5185m		0	0	
Barium  ppm  ASTM D5185m  0  0  0     Molybdenum  ppm  ASTM D5185m  60  63  56     Manganese  ppm  ASTM D5185m  0  0  <1     Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1070  1084  955     Sulfur  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     Ntrassium  ppm  ASTM D5185m	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum  ppm  ASTM D5185m  60  63  56     Manganese  ppm  ASTM D5185m  0  0  <1     Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1150  1084  955     Zinc  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  'ASTM D7844	Boron	ppm	ASTM D5185m	0	<1	6	
Manganese  ppm  ASTM D5185m  0  0  0  <1	Barium	ppm	ASTM D5185m	0	0	0	
Magnesium  ppm  ASTM D5185m  1010  946  963     Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1150  1084  955     Zinc  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     Sulfur  ppm  ASTM D5185m  2060  3070  2413     Sulfur  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.mm  *AST	Molybdenum	ppm	ASTM D5185m	60	63	56	
Calcium  ppm  ASTM D5185m  1070  1084  1114     Phosphorus  ppm  ASTM D5185m  1150  1084  955     Zinc  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415 </th <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th>0</th> <th>&lt;1</th> <th></th>	Manganese	ppm	ASTM D5185m	0	0	<1	
Phosphorus  ppm  ASTM D5185m  1150  1084  955     Zinc  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     NFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/rm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/rm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method <t< th=""><th>Magnesium</th><th>ppm</th><th>ASTM D5185m</th><th>1010</th><th>946</th><th>963</th><th></th></t<>	Magnesium	ppm	ASTM D5185m	1010	946	963	
Zinc  ppm  ASTM D5185m  1270  1222  1137     Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     Potassium  ppm  ASTM D7845  >3  0.8  1.2     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/.tmm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.tmm  *ASTM D7415  >30  19.3  21.6     Dxidation  Abs/.tmm  *AST	Calcium	ppm	ASTM D5185m	1070	1084	1114	
Sulfur  ppm  ASTM D5185m  2060  3070  2413     CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >20  11  10     Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D741	Phosphorus	ppm	ASTM D5185m	1150	1084	955	
CONTAMINANTS  method  limit/base  current  history1  history2    Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  >15  6  6     Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg K0H/g  ASTM D2896  9.8  8.9	Zinc	ppm	ASTM D5185m	1270	1222	1137	
Silicon  ppm  ASTM D5185m  >15  6  6     Sodium  ppm  ASTM D5185m  <  <1  6     Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg K0H/g  ASTM D2896  9.8  8.9	Sulfur	ppm	ASTM D5185m	2060	3070	2413	
Sodium  ppm  ASTM D5185m  <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium  ppm  ASTM D5185m  >20  11  10     INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.tmm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.tmm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg K0H/g  ASTM D2896  9.8  8.9	Silicon	ppm	ASTM D5185m	>15	6	6	
INFRA-RED  method  limit/base  current  history1  history2    Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9	Sodium	ppm	ASTM D5185m		<1	6	
Soot %  %  *ASTM D7844  >3  0.8  1.2     Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9	Potassium	ppm	ASTM D5185m	>20	11	10	
Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9	INFRA-RED		method	limit/base	current	history1	history2
Nitration  Abs/cm  *ASTM D7624  >20  7.7  9.5     Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9	Soot %	%	*ASTM D7844	>3	0.8	1.2	
Sulfation  Abs/.1mm  *ASTM D7415  >30  19.3  21.6     FLUID DEGRADATION  method  limit/base  current  history1  history2    Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9		Abs/cm	*ASTM D7624	>20		9.5	
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2514.716.6Base Number (BN)mg KOH/gASTM D28969.88.9							
Oxidation  Abs/.1mm  *ASTM D7414  >25  14.7  16.6     Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9		DAT <u>ION</u>					history2
Base Number (BN)  mg KOH/g  ASTM D2896  9.8  8.9					14 7		
	· · · · · ·	ing NOTing	AUTHI D2030	0.0			

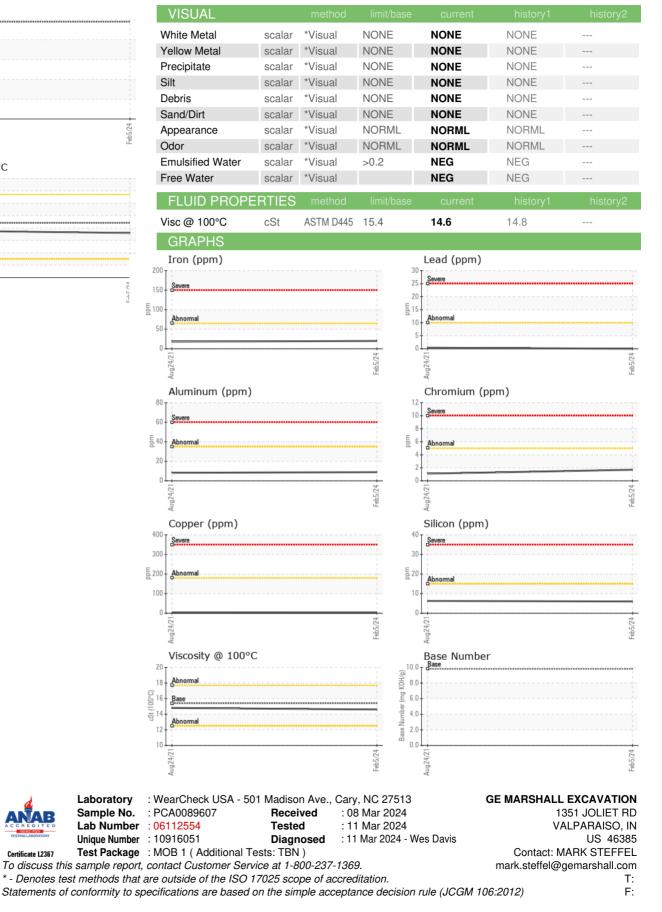
Contact/Location: MARK STEFFEL - GEMVAL



# **OIL ANALYSIS REPORT**







Certificate L2367

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